WHAT IS CLAIMED IS:

    1.   A method for securely communicating via a network comprising:

       receiving an input from a network multiplexer operable to identify an algorithm associated with a communication module;

       processing information communicated between the communication module and the multiplexer using the network multiplexer using the identified algorithm.

    2.   The method of Claim 1, further comprising communicating an instruction to the communication module operable to identify the algorithm.

    3.   The method of Claim 2, further comprising:

       receiving the instruction identifying the algorithm at the communication module; and

       providing secure communication using the identified algorithm.

    4.   The method of Claim 1, further comprising:

       providing a database associated with a central office; and

       providing reference information associated with the network multiplexer in the database.

    5.   The method of Claim 4, further comprising:

       determining subscribers and associated communication modules for the network multiplexer; and

       updating the database based on the determined subscribers and communication modules.

6. The method of Claim 5, further comprising updating the database using information associated with a new communication module.

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7. The method of Claim 6, further comprising identifying an algorithm associated with the new communication module.

10   8. The method of Claim 4, further comprising:
    updating the database associated with the central office; and
    synchronizing the central office database with a database operably associated with the network
15 multiplexer.

9. The method of Claim 8, further comprising:
    identifying communication modules associated with the network multiplexer; and
20   updating the network multiplexer database with reference information from the identified communication modules.

10. The method of Claim 1, further comprising:
25   determining a communication session between the communication module and the network multiplexer; and
    processing information to provide the secure communication in response to determining the session.

11.   The method of Claim 1, further comprising:

determining the algorithm operable to provide the secure communication;

communicating the algorithm to the communication module; and

storing the algorithm within a memory associated with the communication module.

12.   A device operable to provide secure
communication of information via a high speed network
comprising:

    a DSL modem operable to communicate with a
5   DSLAM; and

    a security module coupled to the DSL modem, the
security module operable to provide secure communication
of information between the DSL modem and the network
DSLAM.

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13.   The device of Claim 12, wherein the security
module comprises an algorithm operable to provide secure
communication of information between the security module
and the DSLAM.

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14.   The device of Claim 12, further comprising the
DSL modem operable to receive an instruction from the
DSLAM identifying an algorithm for use by the security
module.

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15.   The device of Claim 12, wherein DSLAM comprises
a reference operable to identify an algorithm associated
with the DSL modem.

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16.   The device of Claim 12, wherein DSLAM comprises
a DSLAM database operable to identify DSL modems operably
associated with the DSLAM.

17.   The device of Claim 16, wherein DSLAM database
30   comprises subscriber information associated with the DSL

modems, the subscriber information including session
information.

    18. The device of Claim 12, wherein DSLAM is
operably coupled to a central office, the central office
including a central office database including DSLAM
information and DSL subscriber information.

    19. The device for Claim 12, further comprising
memory operably coupled to the security module, the
memory operable to store an algorithm communicated to the
DSL modem.

    20. A device for providing secure communication of
information via a network comprising:
        means for identifying an algorithm operable to
provide the secure communication between a network
5   multiplexer and a communication module; and
        means for processing information communicated
between the communication module and the network
multiplexer using the algorithm.

10   21. The device of Claim 20, further comprising:
        means for determining the algorithm using the
network multiplexer; and
        means for communicating an instruction to the
communication module to identify the algorithm.
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    22. The device of Claim 21, further comprising:
        means for receiving the instruction identifying
the algorithm at the communication module; and
        means for providing the secure communication
20   based on the identified algorithm.

    23. The device of Claim 20, further comprising:
        means for providing a database associated with
a central office; and
25   means for providing the database with reference
information associated with the network multiplexer.

24.   A medium including encoded logic for providing
secure communication of information comprising the logic
operable to:

 identify an algorithm operable to provide a
secure communication between a network multiplexer and a
communication module; and

 process information communicated between the
communication module and the multiplexer using the
algorithm.

25.   The medium of Claim 24, further comprising the
logic operable to:

 receive an instruction identifying the
algorithm; and

 provide the secure communication based on the
identified algorithm.

26.   The medium of Claim 24, further comprising the
logic operable to:

 determine a communication session between the
communication module and the network multiplexer; and

 process information to provide the secure
communication in response to determining the
communication session.

27.   The medium of Claim 24, further comprising the
logic operable to:

 receive the algorithm operable to provide the
secure communication; and

 store the algorithm within a memory associated
with the communication module.